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Terms: [patn =5905460](#) ([Edit Search](#))

918200 (08) 5905460 May 18, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5905460

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May 18, 1999

Wrist watch type GPS receiver

REISSUE: Reissue Application filed Sep. 29, 1999 (O.G. Nov. 23, 1999) Ex. Gp.: 3662; Re. S.N. 09/408,839, (O.G. November 23, 1999)

APPL-NO: 918200 (08)


FILED-DATE: August 25, 1997

GRANTED-DATE: May 18, 1999

CORE TERMS: wave, user, posture, detecting, antenna, receiver, alarm, display, processing, frequency ...

ENGLISH-ABST:

The system includes an antenna posture detecting device for detecting an antenna posture condition where it is apparently impossible to receive the wave, and a received signal operation controlling device for temporarily interrupting the wave receiving operation, in the case where it is impossible for the antenna to receive the wave, until the wave receiving operation is again possible. The system may include a body movement detecting device for detecting an action of the user; an action judgement device for judging the action of the user on the basis of an output signal of the body movement detecting device; a signal receiving operation controlling device for controlling a signal receiving operation of the GPS receiving device from the judgement result of the action judgement device; a moving distance calculating device for calculating a moving distance of the user on the basis of an output signal of the body movement detecting device during a period of time when the GPS signal receiving operation is interrupted; and an alarm device for receiving a wave of a GPS receiving antenna on the basis of an output signal of the moving distance calculating device and for giving an alarm to the user for a position where it is easy for the GPS receiving antenna to receive the wave.

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Patent Number :

US5905460 A 19990518 [US5905460]

Title :

(A) Wrist watch type GPS receiver

Patent Assignee :

(A) SEIKO INSTR INC (JP)

Patent Assignee :

Seiko Instruments Inc., [JP]

Inventor(s) :

(A) ODAGIRI HIROSHI (JP); TSUBATA KEISUKE (JP); OONO
TAKESHI (JP); SAKUMOTO KAZUMI (JP); NAKAMURA CHIAKI (JP)

Application Nbr :

US91820097 19970825 [1997US-0918200]

Priority Details :

US91820097 19970825 [1997US-0918200]
JP19279597 19970717 [1997JP-0192795]

Intl Patent Class :

(A) G01S-005/02

EPO ECLA Class :

G01S-001/04F
H01Q-001/22
H01Q-001/27C

US Patent Class :

ORIGINAL (O) : 342357060; CROSS-REFERENCE (X) : 701213000

Document Type :

Basic

Citations :

US5345244; US5627548; US5731757

Publication Stage :

(A) United States patent

Abstract :

The system includes an antenna posture detecting device for detecting an antenna posture condition where it is apparently impossible to receive the wave, and a received signal operation controlling device for temporarily interrupting the wave receiving operation, in the case where it is impossible for the antenna to receive the wave, until the wave receiving operation is again possible. The system may include a body movement detecting device for detecting an action of the user; an action judgement device for judging the action of the user on the basis of an output signal of the body movement detecting device; a signal receiving operation controlling device for controlling a signal receiving operation of the GPS receiving device from the judgement result of the action judgement device; a moving distance calculating device for calculating a moving distance of the user on the basis of an output signal of the body movement detecting device during a period of time when the GPS signal receiving operation is interrupted; and an alarm device for receiving a wave of a GPS receiving antenna on the basis of an output signal of the moving distance calculating device and for giving an alarm to the user for a position where it is easy for the GPS receiving antenna to receive the wave.

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Patent Number :

US5905460 A 19990518 [US5905460]

Application Number :

US91820097 19970825 [1997US-0918200]

Action Taken :

19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SEIKO INSTRUMENTS INC. 8, NAKASE 1-CHOME,
MIHAMA-K; EFFECTIVE DATE: 19990208

19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: ODAGIRI, HIROSHI; EFFECTIVE DATE: 19990208

19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: TSUBATA, KEISUKE; EFFECTIVE DATE: 19990208

19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: OONO, TAKESHI; EFFECTIVE DATE: 19990208

19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SAKUMOTO, KAZUMI; EFFECTIVE DATE: 19990208

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: NAKANUM; EFFECTIVE DATE: 19990208

19991123 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 19990929

20000118 US/CC-A
CERTIFICATE OF CORRECTION

Update Code :

2003-22

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

5,905,460 A 19990518 [US5905460]

Patent Assignee :

Seiko Instruments Inc JP

Actions :

19990929 REISSUE REQUESTED
Issue Date of O.G.: 19991123
Reissue Request Number: 09/408839
Examination Group responsible for Reissue process: 3662

20000118 CERTIFICATE OF CORRECTION

Query/Command : PRT SS 1 MAX 1 LEGAL

1 / 1 INPADOC - ©INPADOC

Patent Number :

US 5905460 A 19990518 [US5905460]

Title :

WRIST WATCH TYPE GPS RECEIVER

Inventor(s) :

ODAGIRI HIROSHI [JP]; TSUBATA KEISUKE [JP]; OONO TAKESHI [JP]; SAKUMOTO KAZUMI [JP]; NAKAMURA CHIAKI [JP]

Patent Assignee (Words) :

SEIKO INSTR INC [JP]

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Priority Details :

US 918200/97-A 19970825 [1997US-0918200]

JP 192795/97-A 19970717 [1997JP-0192795]

Intl. Patent Class. :

G01S:005/02

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US5905460 A 19990518 [US5905460]

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19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: SAKUMOTO, KAZUMI; EFFECTIVE DATE: 19990208

19990226 US/AS02-A
ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: NAKANUM; EFFECTIVE DATE: 19990208

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EFFECTIVE DATE: 19990929

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